ocket No. VIP-101

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Keegan F. O'Neill, et al.	)	
Sorial No 00/064 272	)	Evansinina Attaurau
Serial No.: 09/964,373	)	Examining Attorney: Michael J. Pyzocha
Filing Date: September 28, 2001	)	
	)	Group Art Unit: 2137
Title: REMOTE PASSWORD RESETTING	)	
INTERFACE (as amended)	)	
	)	

### **DECLARATION OF PRIOR INVENTION**

37 CFR 1.131

Box: Fee Amendment Assistant Commissioner of Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Keegan F. O'Neill makes the following Declaration with regard to the Office Action issued June 20, 2005 in the above-identified patent application.

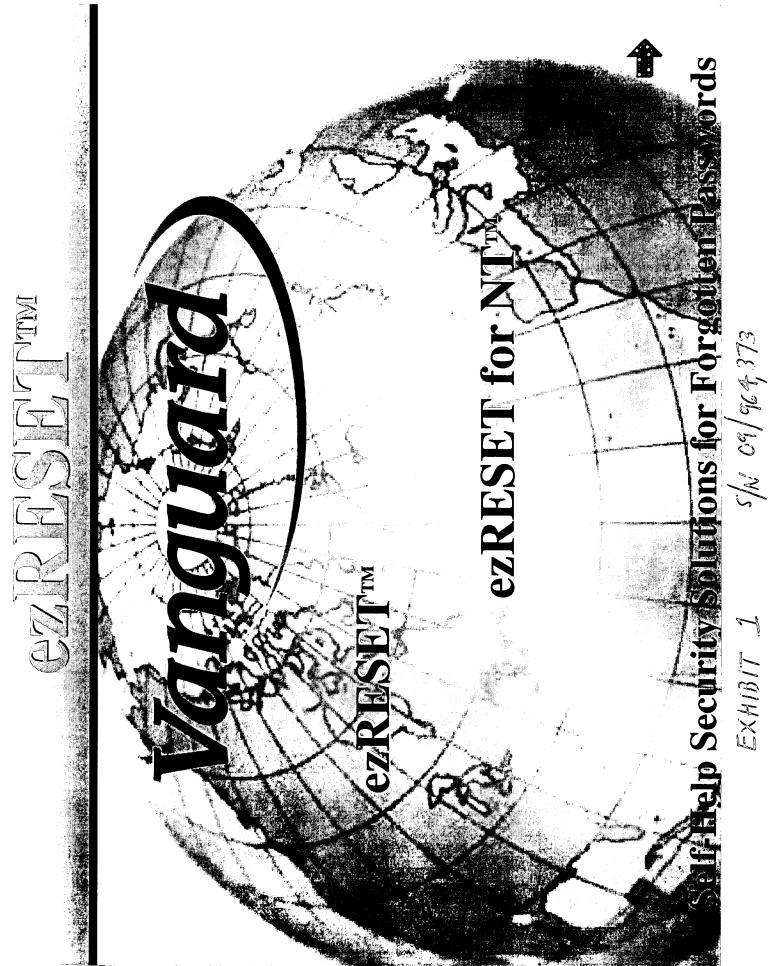
- 1. I am an inventor named in this patent application. I have first-hand knowledge of the statements made herein and the documentation listed below.
- 2. Attached hereto and made a part hereof as Exhibit 1 is a true copy of a Power Point presentation entitled ezRESET SELF-HELP SECURITY SOLUTIONS FOR FORGOTTEN PASSWORDS. The presentation was used to describe the claimed method. This presentation was given on a date prior to May 10, 2001 but after September 28, 2000.

FROM:

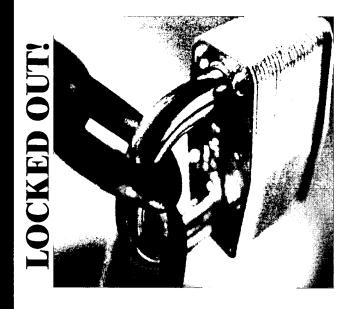
- 3. Attached hereto and made a part hereof as Exhibit 2 is a true copy of INSTALLATION AND USER GUIDE for ezRESET RDI (Version 1.0). This document was released to the public prior to May 10, 2001 but after September 28, 2000 and instructs users how to practice my claimed method.
- 4. Attached hereto and made a part hereof as Exhibit 3 is a true copy of an e-mail communication entitled REMOTE DESKTOP INTERFACE which I prepared for my employer Vanguard Integrity Professionals-Nevada. This communication was originally prepared and modified on a date earlier than May 10, 2001 and refers to the steps for implementing the claimed method.
- 5. My co-inventors and I conceived the method for enabling an original password to be reset on a host computer from a remote station as recited in Claims 1-6 of our pending patent application on a date earlier than May 10, 2001.
- 6. The remote desktop interface to which this patent application relates was completed and sent to a customer for testing in early 2001, but prior to May 10, 2001.
- 7. All of the activities referred to herein took place in the United States or a NAFTA country (i.e., Canada).

I hereby declare that all statements made herein of my own knowledge and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Keegan P. O'Neill Dated Feb 21 2006







### FORGOTTEN PASSWORDS IS A COMMON PROBLEM



### Vanguard)

# OVERLOADED HELP DESK

### **ezrese**TTTM

The process of getting a new password often is lengthy, embarrassing, and generally unproductive!

It required the intervention of the help-desk to solve the access problem.



### Vanguard

# OVERLOADED HELP DESK

### **ezres**ettm

ezRESET saves your help-desk time and money!

ezRESET quickly and securely allows users to change their own passwords.



# DOING THE NUMBERS

### **EZRESET**TTM

- Tremendous savings!
- A medium-sized organization can potentially save hundreds of thousand of dollars a year.
- A large organization may be able to save millions!



# HELP DESK PRODUCTIVITY

### **EZRESET**TTM

- •Self-help solution
- their own passwords Users can change from any location at any time, and
- changed from your Passwords can be favorite web browser.

- EASY-to-install
- •EASY-to-use
- •Fully secure
- Overall Security is greatly improved
- security procedures are Ensures that proper followed.

Designed for the enterprise environment

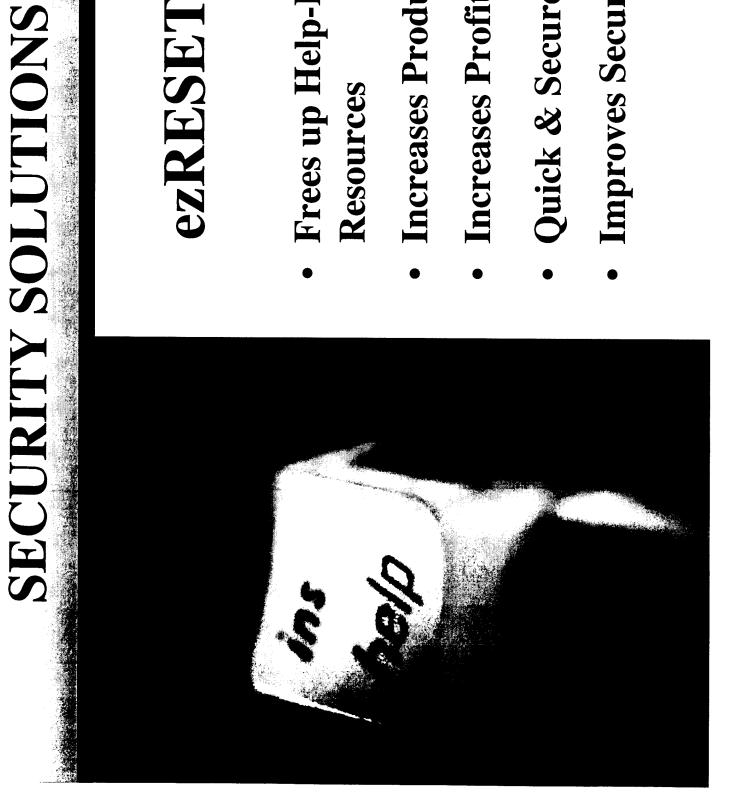
Profit from Security





### **ezRESET**TTM

- Frees up Help-Desk Resources
- Increases Productivity &
- **Increases Profitability**
- Quick & Secure
- Improves Security





# Vanguard) ezreft

## ezreset for NTTM

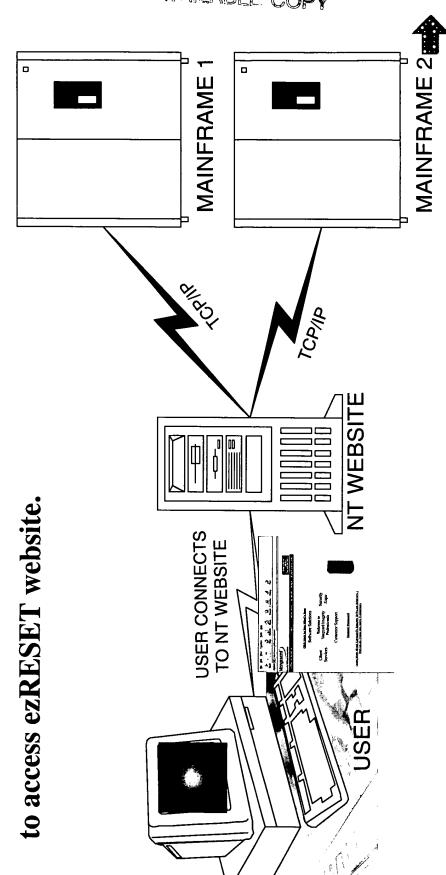
# Overview and Demonstration

## **Profit from Security**



User wants to Register:

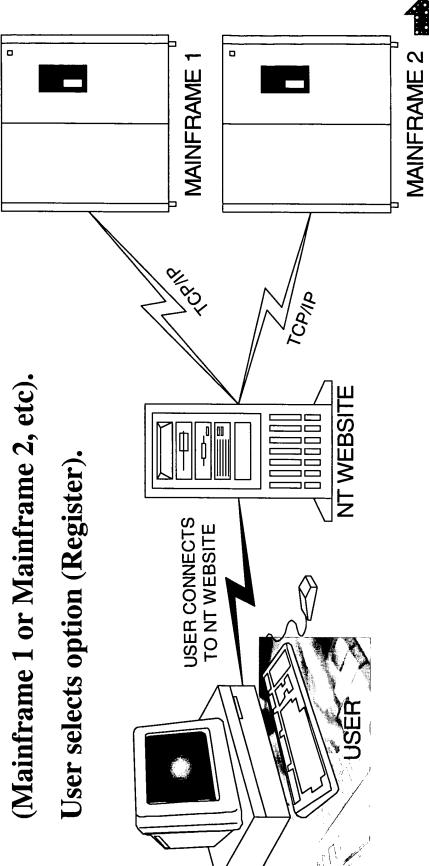
1. User uses any favorite web browser on desktop



### **EZRESET**TIM

User wants to Register:

2. User selects which platform they want to use:

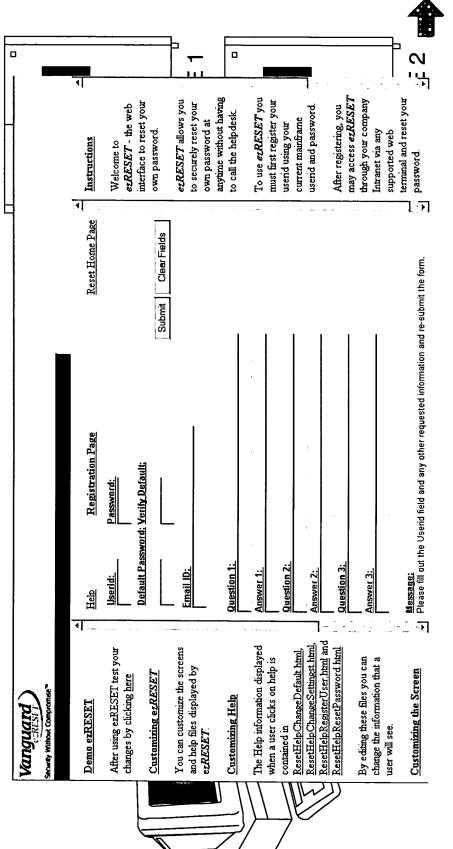




### **EZRESET**TIM

### User wants to Register:

3. User selects and responds to 3 questions.

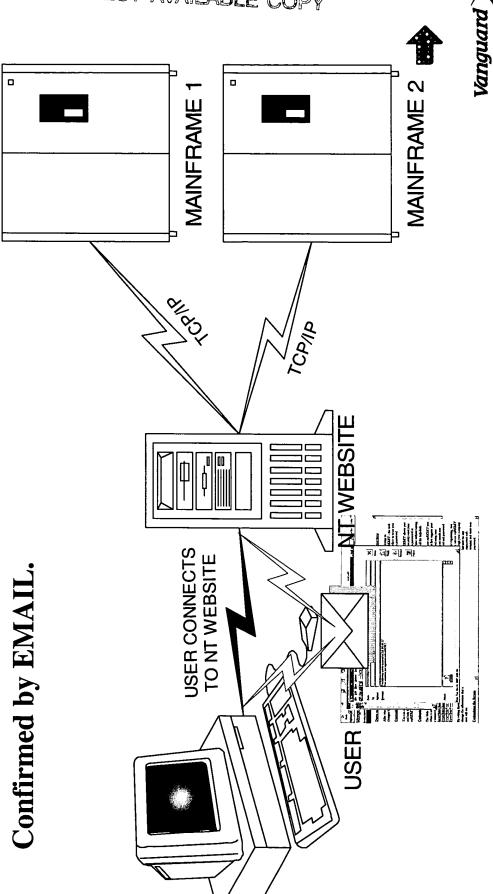




User wants to Register:

**ezrese**T<sup>TM</sup>

3. Function is executed on the desired platform.

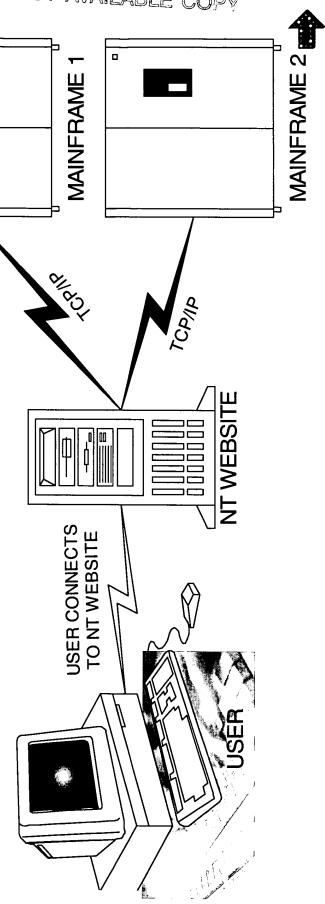






1. User uses any favorite web browser on desktop

to access ezRESET website.

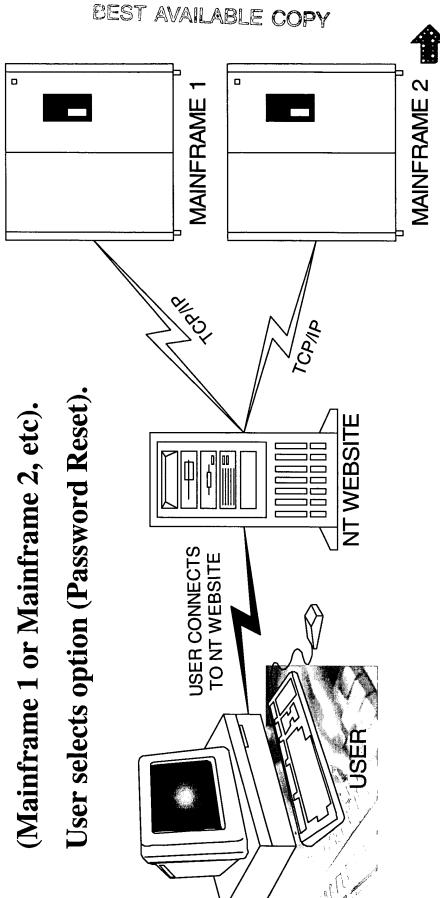




### **EZRESET**TIM

User wants to RESET PASSWORD:

2. User selects which platform they want to use:



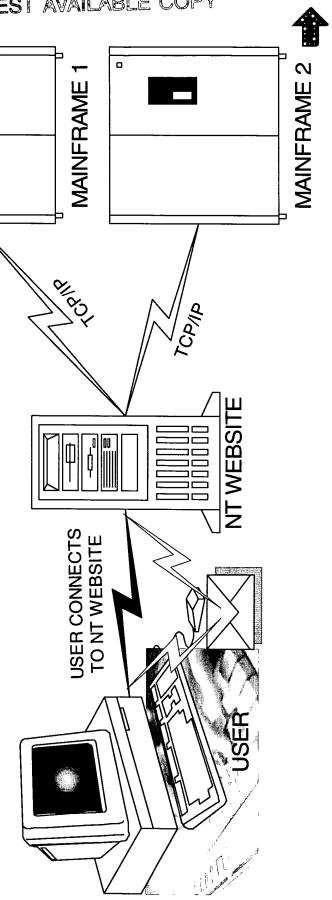


Vanguard



3. Function is executed on the desired platform.

Confirmed by EMAIL.



# HELP DESK PRODUCTIVITY

## ezreset for NTTIM

- Self-help solution
- Users can change their own passwords at any time, and from any location
- Passwords can be changed workstation or through a from a Windows-based favorite web browser

- EASY-to-install
- •EASY-to-use
- •Fully secure
- Overall Security is greatly improved
- Ensures that proper security procedures are followed.

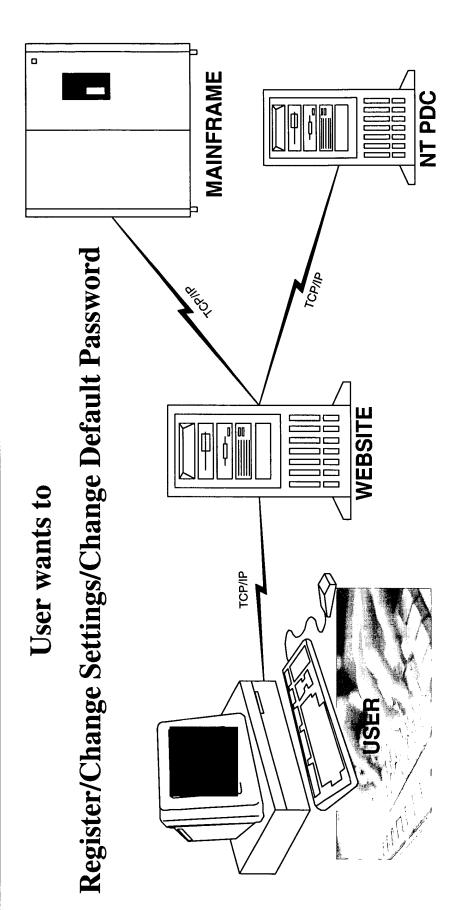
Designed for the enterprise environment

**Profit from Security** 



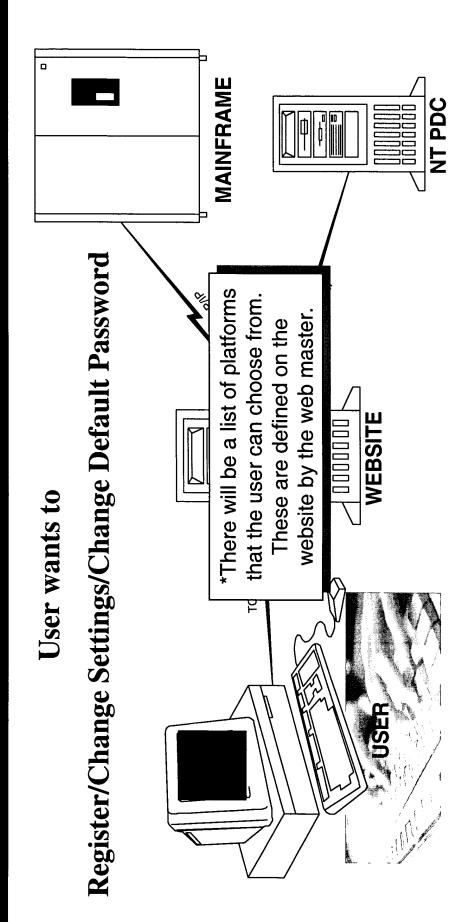


# **ezRESET for NTTM**



1a. User uses web browser on desktop to access ezRESET for NT website.

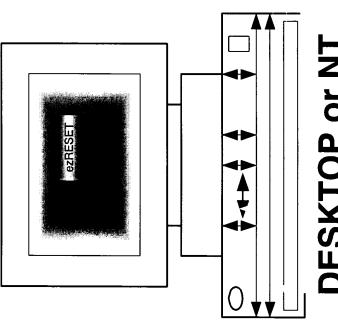




1b. User selects which platform they want to use (Mainframe, User selects option (Register, etc.)

1c. Function is executed on the desired platform





**DESKTOP or NT** 

2a. User wants to Reset password on workstation. User has access to desktop and browser.

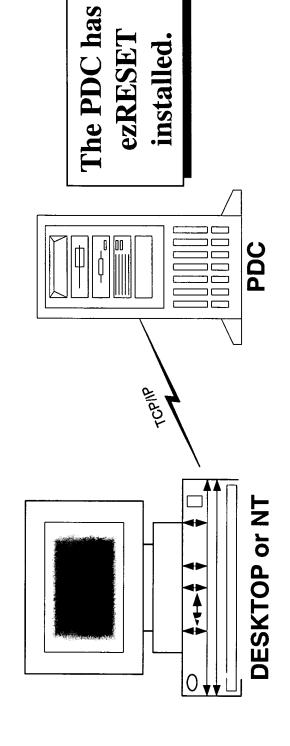
2b. User selects Reset function.





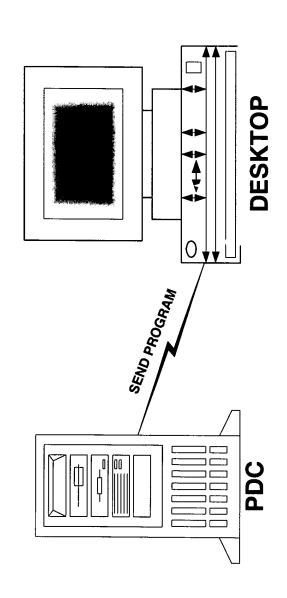
User wants to Reset password.

User CANNOT ACCESS desktop.



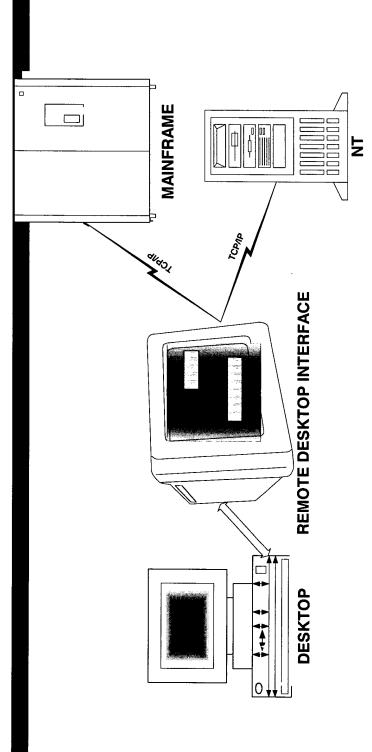
3a. User <u>logs on using ezRESET for NT</u> account.





request to reset a password and loads a program on the 3b. ezRESET for NT intercepts logon and realizes this is a desktop.





- 3c. The program (Remote Desktop Interface) displays a screen on the desktop where the user enters their ID and selects the platform were they want their password to reset.
- Q&A and send the answers back to the platform. It takes place of the web site in so far as resetting the password is communicate with the selected platform. Retrieve the 3d. The RDI (Remote Desktop Interface) will then concerned.





# Profit from Security

### 1

Vanguard)





ezRESET for NTTM

### ezRESET RDI™ Installation and User Guide

Version 1.0

5/1 09/964,373

EXHIBIT 2

### ezRESET RDI<sup>™</sup>

Version 1.0 Document Number VZRR-051028-100U

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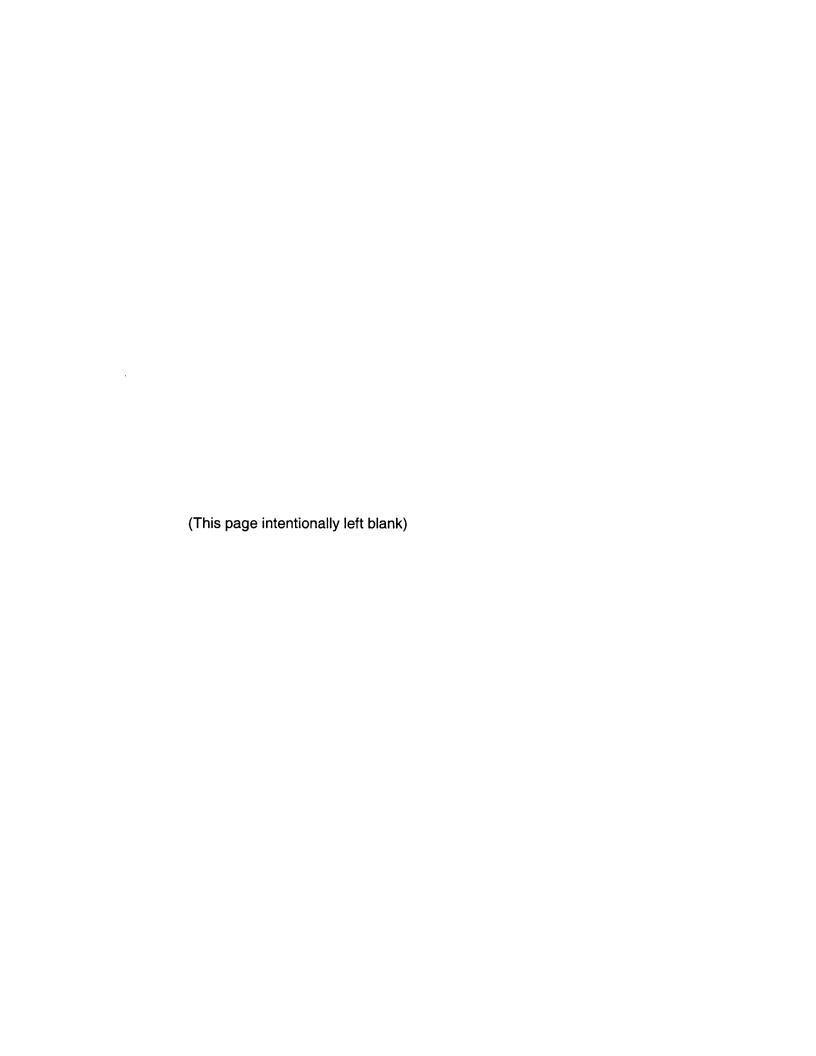
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### Introduction ezRESET RDI

When users forget their password and cannot logon, they may not be able to get access to their desktop in order to use a web browser, or logon to the mainframe. Using **ezRESET RDI** will resolve their problem.

ezRESET RDI is installed on an installation's domain controllers (DC's), both Primary and Backup. There is no need to install any software on the users desktops, making this a very simple way to distribute this solution. The administrator installs ezRESET RDI and specifies an account that is to be used by the end user(s) when they want to reset their password directly from the desktop, without having to logon. In this case, we will presume the account is RESET, with a password of RESET.

When the user attempts to logon using the **RESET** account, **ezRESET RDI** will intercept the logon. It will recognize this as a request to do a reset. The logon will be cancelled and a small amount of code will be run on the users desktop. This code will provide an interface to **ezRESET** so that the user can have their ID reset.

This cost and timesaving solution prevents installations from having to install a thin-client on each desktop, or using telephony type of interfaces, which can be costly and not always reliable.

### Installing ezRESET RDI

### Requirements

Windows NT 4.0 or Windows 2000 PDC, with Domain Administrator Account (User Name and Password).

### Vanguard *ezRESET* RDI Installation Process Checklist

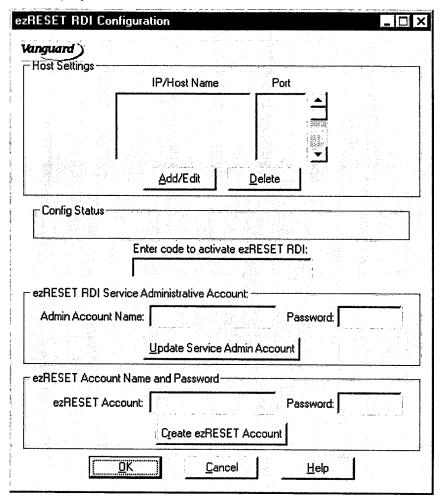
The following checklist is provided to help ensure that all the necessary steps needed to install and use Vanguard *ezRESET* RDI have been accomplished. You should refer to the information below while performing the procedures in this checklist.

Step 1	Determine that TCP/IP communications between the users desktops and your RDI platform can be established. Use the TCP/IP "PING" command to verify that there is communication.
Step 2	Review the documentation
Step 3	Verify that Windows NT 4.0 Server (Service Pack 4 or above) or Windows 2000 is installed.
Step 4	Determine that your Administrator has access to NT
Step 5	Copy the RDI files
Step 6	Install ezRESET RDI
Step 7	Configure the RDI component

### Installation

To install ezRESET RDI, perform the following steps:

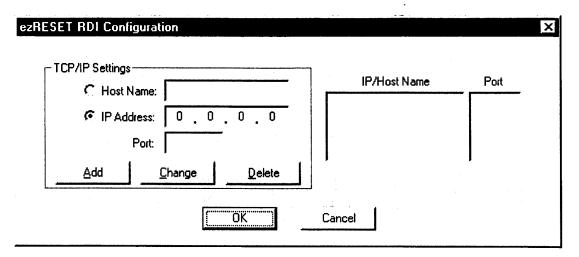
- Run the supplied ezRESETRDI.exe on the PDC(s) where ezRESET RDI will be installed. This will extract the setup files into a temporary directory.
- 2. Run the SETUP.EXE from the temporary install directory into the desired directory. The *ezRESET* RDI Configuration dialog box will be displayed.



 Click Add/Edit on the ezRESET RDI Configuration panel to establish the Host Settings information required to identify the server where users will reset their password. The dialog box shown below will be displayed.

This requires entering the **IP/Host Name** and **Port** for each host (one primary, zero or more backups) where users will reset their password. This information will initially be empty. After this information is established, multiple hosts can be populated in these fields.

### Installation, cont'd



4. Update the TCP/IP Settings on this panel as described below:

The information entered will most likely be the same as that defined when configuring the *ezRESET* Web Site.

▼ TCP/IP Settings

Enter the TCP/IP information for the specific platform. You may specify a **Host Name** or a specific **IP Address**, and the **Port Number**.

5. Click on **Add** to add an entry to the list.

-or-

Click on **Change** to change an entry in the list while that entry is selected.

-or-

Click on **Delete** to remove an entry from the list.

You may make multiple entries. The first entry in list will be tried first, if that entry is unavailable the next in the list is tried and so on until a host is reached or it is determined that none are available.

6. Enter code to activate ezRESET RDI.

This code will be provided by Vanguard Integrity Professionals

### Installation, cont'd

### 7. Enter the ezRESET RDI Service Account Settings.

### Service Account and Password

Service Account and Password is required for *ezRESET* RDI to get access to workstations in the domain. The information entered, Account Name and Password, is not stored by *ezRESET* RDI.

This must be a Domain Administrator account and requires the "Logon As A Service" right.

Upon running the *ezRESET* RDI configuration utility, if an account name is in the Service Account field, it has been extracted from the Service Control Manager.

Click the **Update Service Admin Account** button to process.

### 8. Enter the ezRESET Account Settings

### Reset Account and Password

The Username of the account by which a user will logon to trigger a "password reset". Users will not be able to perform a logon with this account, it will be controlled by **ezRESET RDI**.

If you uninstall *ezRESET* RDI, you will be given the option to remove this account so that it cannot be used.

The account can be created (with the Create Reset Account button) or can already exist.

Password is only required for an account that is to be created. If the account already exists you need only enter the Username.

Click the Create ezRESET Account button to process.

### 9. Reboot the Machine

You may now reboot the machine and **ezRESET RDI** will be ready for use. You can test that it is working by attempting a logon using the specified Reset Account and Password

### Post Installation Reconfiguration

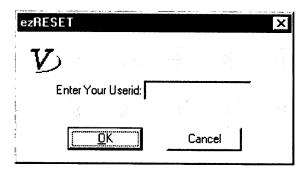
After the product has been installed, you may want to reconfigure the existing setup. To do so, run the supplied ezRESETRDIConfig.exe. The *ezRESET* **RDI Configuration** dialog box shown on page 4 will be displayed which will allow you to make the appropriate changes.

### Using ezRESET RDI

### **Resetting Password**

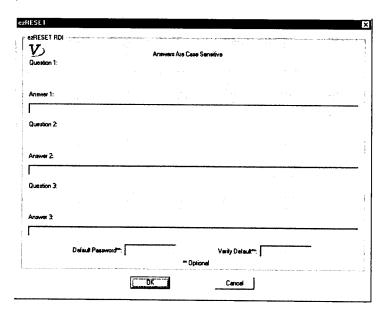
When users have forgotten their password and cannot access their desktop to get to the *ezRESET* web site, it will be necessary for them to use the RDI to reset their password.

This is accomplished by using the *ezRESET* account defined in the *ezRESET* RDI configuration. The user will "log on" using the *ezRESET* account and password (in this case we will presume the account is **RESET**, with a password of **RESET**). The logon will be denied, but this act of logging in using the **RESET** account will trigger the RDI to be run on the user desktop and the following dialog box will be displayed on their machine:



The user will then enter their UserID and (if they have already registered) will then be shown a dialog box with their questions to be answered:

The user then answers their question and optionally enters a Default password, presses OK and (if they answered their questions correctly) their password will be reset to their Default.



### Remote Desktop Interface

Why a Need: We had need to run a program on a users desktop (in this particular case, to allow the user to reset their own password) without the user having to log in to their machine. Running a program in the secure desktop (the screen with "Press Ctrl + Alt + Delete to log on") is fairly simple, but our problem extended a little further. We did not want this program to be stored on the users desktop. Therefore we had need to allow the user to run a program at will that was not stored on their own machines and without requiring them to log on.

The necessity for these requirements are as follows: We have need of allowing a user to run a program at will without logging in – this is necessary as the program in this case allows a user to reset their own password, and the most likely instance of this being used by a user would be when they can not log on to their machines (because of a forgotten password for instance). We do not want to have our software stored on each users desktop as this adds an undesirable amount of potential maintenance plus installation time for organizations with large numbers (thousands) of users.

Therefore we had need to develop a system that, after certain conditions are met installs a program on a remote machine that will remove itself without trace after execution is completed.

Current State of the Art: Currently there is no method of running a program on a remote machine if that program does not exist on said machine.

EXHIBIT 3

s/N 09/964,373

### Walkthrough:

- 1) Login attempt is captured by the RDI Subauth.
- 2) We compare the user name of from the login attempt to a stored value know as the "Reset Account Name". If the names match go on to 3b, if not go to 3a.
- 3a) If the names match then we know a Reset is being attempted. First this we want to do is deny the "Reset" account access to the computer.
- 3b) Continue with normal NT login, our program goes back to a wait state to wait for next logon attempt.
- 4) The next this we need to gather info on where this attempt is originating from so get capture the Workstation Name.
- 5) Next we need to communicate with the RDI Server running as a service on the PDC of the Domain of witch the Workstation is a member of.
- 6) If communication cannot be established go to 7a, otherwise go to 7b.
- 7a) Communication established so we send the Workstation information to the RDI Server.
- 7b) If we cannot communicate with the RDI server they it may not be installed on that PDC, report an error and quit.
- 8) The RDI Server (running as a service) receives the Workstation information from the RDI Subauth.
- 9) The RDI Server will then create a thread to handle further processing and then wait for further connections.
- 10a) The RDI Server Thread will then attempts to connect to the Workstations Registry and save Configuration information. If this is successful go to step 11a otherwise go to 10b.
- 10b) If the install of configuration does not complete successfully then we remove any data that did get installed on the remote workstation, sever the connection and quit.
- 11a) If configuration information was installed correctly we copy the RDI Program file to the remote machine using a well known administrative share. If this is successful go to 12a, otherwise go to 11b.
- 11b) If the file copy was unsuccessful we remove all Configuration info we have installed on the Workstation and quit.
- 12a) If the file was copied successfully, we access the Workstations Service Control Manager (SCM) and install the RDI Program as a service. Success go to 13a, failure go to 12b.
- 12b) On failure to install as a service, we remove the program file copied previously, and all the configuration information and quit.
- 13a) On success of installing to program as a service we then attempt to start the service (which will start the program). On success go to 14 else go to 13b.
- 13b) On failure of the program to start we remove the program as being a service, remove the program file itself and remove the configuration information then quit.
- 14) The RDI starts successfully, our thread quits.
- 15) Our program executes, pops up an interface to the secure desktop (where you press Ctrl + Alt + Delete).
- 16) The program finishes all tasks, it then removes itself from being a service, removes all configuration information, and finally removes itself, the program file and quits.